

1965 03 17 09

SECRET

25X1

TO : DIRNSA, CDSN, SAFSS SAC HQ 04441, SSD,  
 3404TH ATW OPNS, 040141Z  
 FROM : SSD HQ 04441

APDUS A

04-1142

NRO Review Completed as Redacted.

CONFIDENTIAL

TO

INFO

SITE

SECRET THIS IS A BYRON MESSAGE HANDLE VIA

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BYRON CONTROL CHANNELS ONLY SYN

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FOR ECO'S

DIRNSA FOR ; SAFSS PENTAGON FOR

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SAFSP PENTAGON FOR CAPTAIN USN; SAFSP LOS

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ANGELES FOR SSD EL SEGUNDO, CALIFORNIA FOR

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6594TH ATW FOR

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LOCKHEED, SUNNYVALE, CALIFORNIA

SUBJECT: INTERCEPT ON ADDITIONAL

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DATA CONSISTING OF A "FINE FIT" EPHEMERIS AND DETAILED

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ANTENNA PATTERN MEASUREMENTS WERE RECEIVED WHICH INFLUENCE

THE INTERCEPT INFORMATION GIVEN IN THE FINAL MESSAGE REPORT

FOR , DTD 17 MAR 1965.

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A. CORRECTED VEHICLE POSITIONS AT THE TIMES OF THE  
 FIRST AND LAST ILLUMINATIONS OF THE MAIN BEAM ARE  
 GIVEN BELOW. ALSO GIVEN ARE THE LOOK ANGLES TO THE VEHICLE  
 COMPUTED FOR . THEY ARE ESSENTIALLY THE SAME FOR

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SAN FRANCISCO SFN

(IN 85947) S E C R E T

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FIRST ILLUMINATION

SECOND ILLUMINATION

VEHICLE POSITION

ALTITUDE

AZIMUTH

ELEVATION

SLANT RANGE

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B. ANTENNA PATTERN MEASUREMENTS SUGGEST THAT THE  
RECEIVED SIGNAL WAS EITHER CIRCULARLY OR VERTICALLY POLARIZED.  
ANTENNA GAIN FOR THESE POLARIZATIONS IS NEARLY CONSTANT AT  
GAIN FOR HORIZONTAL POLARIZED WAVES VARIES FROM

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OVER THE SECTOR OF THE PATTERN SUBTENDED DURING THE  
INTERCEPT. SINCE THE SIGNAL AMPLITUDE MEASURED BY  
EACH MAIN BEAM ILLUMINATION WAS CONSTANT AT

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. THUS,

THE SIGNAL LEVEL AT THE VEHICLE WAS  
IF IT IS ASSUMED THAT THE SIGNAL WAS NOT EXACTLY VERTICALLY  
POLARIZED. GP-1

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END OF MESSAGE

S E C R E T

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